

# **StorageWorks by Compaq**

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## **Release Notes – FCA2257P PCI Host Bus Adapter for Sun Solaris**

Part Number: AA-RRA5A-TE

### **First Edition (July 2002)**

These release notes contain late-breaking and supplemental information for the *StorageWorks*™ FCA2257P PCI Host Bus Adapter for Sun Solaris by Compaq. For the latest version of these Release Notes and other Host Bus Adapter documentation, visit the Compaq storage website at:

<http://www.compaq.com/products/storageworks/adapters.html>

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## Release Notes Contents

The StorageWorks™ by Compaq PCI-to-Fibre Channel Host Bus Adapter (HBA) for Sun Solaris is a 64-bit Fibre Channel host bus adapter with integrated non-OFC short wave fibre optic interface. These release notes include all known issues and restrictions for using the HBA within a system configuration. This document is organized into the following sections:

- Other Documentation
- Parts List
- Sun Solaris Operating Systems and Server
- Supported Storage and Interconnecting Devices
- Restrictions

## Other Documentation

The FCA2257P PCI Host Bus Adapter kit includes:

- *StorageWorks by Compaq FCA2257P PCI Host Bus Adapter for Sun Solaris Installation Guide*, part number AA-RRA4A-TE

Additional documentation, including, application notes, white papers, and best practices documents, are available on the Compaq website at: <http://www.compaq.com>.

## Parts List

Table 1–1 includes the Parts List for the FCA2257P adapter.

**Table 1–1: Parts List**

Part Number	Description
254456-B21	FCA2257P PCI Host Bus Adapter kit. This kit contains the following items:
267726-001	FCA2257P PCI Host Bus Adapter
QC-6TWAA-SC.1.0	FCA2257P PCI Documentation kit
AA-RRA5A-TE	Release notes for the FCA2257P (this document)
AA-RRA4A-TE	StorageWorks FCA2257P PCI Sun Solaris Host Bus Adapter Installation Guide
AV-RRA8A-TE	FCA2257P PCI Host Bus Adapter License

**Table 1-1: Parts List (Continued)**

3R-Q409A-AA	Compaq StorageWorks Warranty
3R-Q411A-AA	Compaq StorageWorks Telephone Book
AG-RRA6A-BE	Sun Solaris Device Driver CD

## Sun Solaris Operating Systems and Server

The FCA2257P adapter supports the following operating system and server:

- Sun Solaris Version 2.6, 2.7, and 2.8
- Sun4u architecture machines

## Supported Storage and Interconnecting Devices

Table 1-2 describes the components and their revisions that are qualified with the HBA..

**Table 1-2: Supported Storage and Interconnect Devices**

Component	Firmware/Driver Recommended Version (or later)	Part Number
FCA2257P Adapter	PCI driver V3.26 Fcode firmware V1.18.5	QC-6TWAA-SC.1.0 254456-B21
StorageWorks 1 GB FC Switches 8 Port  16 Port	1.6D	DS-DSGGA-AA 380591-B21  DS-DSGGA-AB 380578-B21
StorageWorks 1 GB SAN Switches 8 Port  16 Port	2.6.0C	DS-DSGGB-AA 158223-B21  DS-DSGGB-AB 158224-B21

**Table 1–2: Supported Storage and Interconnect Devices (Continued)**

Component	Firmware/Driver Recommended Version (or later)	Part Number
<i>StorageWorks 1 GB SAN Switches</i> 8-EL  16-EL	2.6.0C	DS-DSGGC-AA 176219-B21  DS-DSGGC-AB 212776-B21
<i>StorageWorks 2 GB SAN Switches</i> 16 Port with one power supply  16 Port with two power supplies	3.0.2C	DS-DSGGD-AA 240602-B21  DS-DSGGD-BA 287055-B21
<i>StorageWorks 2 GB SAN Switches</i> 8-EL  16-EL	3.0.2C	DS-DSGGD-AC 258707-B21  DS-DSGGD-AD 283056-B21
SAN Director 64 Switch	1.04.00 Build 2	DS-DMGGD-AA 254512-B21
MSA Fabric Switch 6	101G05 or later	218960-B21
2Gb/s SFP SW Transceiver Kit	N/A	221470-B21
Fibre Channel Storage Hub-7	N/A	DS-SWXHB-X7 234453-001
Optical Cables (connection from HBA to Hub or Switch)	N/A	LC-LC Multi-Mode Fibre Channel Cable 221692-B21 - 2m 221692-B22 - 5m 221692-B23 -12m

**Table 1–2: Supported Storage and Interconnect Devices (Continued)**

Component	Firmware/Driver Recommended Version (or later)	Part Number
Optical Cables (connection from HBA to Hub or Switch)	N/A	SC-LC Multi-Mode Fibre Channel Cable 221692-B21- 2m 221692-B22 - 5m 221692-B23 - 12m

## Restrictions

The following restrictions apply:

- Only Sun4u architecture is supported.
- Fibre Channel-Arbitrated Loop (FC-AL) mode is not supported.

## Changes to the FCA2257P PCI Host Bus Adapter for Sun Solaris Installation Guide

The following changes were made to the FCA2257P PCI Host Bus Adapter for Sun Solaris Installation Guide, but not included in the printed version of the installation guide:

## Installing the Solaris Driver

To install the Solaris driver to your system:

1. Log on to the system as superuser.
2. Create a temporary directory to which you can copy the driver.
3. Change the directory (cd) to the CD-ROM mount point. The location is normally /cdrom, but the location can vary. Ask your system administrator for the specific directory.
4. Change the directory (cd) to the directory qlc\_drivers\_xxxx.

5. At the command prompt, enter:

```
pkgadd -d .
```

You are prompted to select a driver package, as shown in the following example in which 3 was entered.

```
The following packages are available:  
1 QLA2200 -1 QLogic QLA2200 driver  
    (sparc) Solaris 2.6, Rev=X.XX  
2 QLA2200 -2 QLogic QLA2200 driver  
    (sparc) Solaris 2.7, Rev=X.XX  
3 QLA2200 -3 QLogic QLA2200 driver  
    (sparc) Solaris 2.8, Rev=X.XX  
  
Select package(s) you wish to process (or 'all'  
to process all packages). (default: all)  
[?,??,q]: 3
```

**NOTE:** The revision number, X.XX, indicates the most recent version of the driver.

6. Enter the number associated with the Solaris version on your system.

You are prompted to select the directory where the driver will be installed, as shown in the following example:

```
Processing package instance <QLA2200-3> from  
</cdrom/qlc_drivers_xxxx>  
  
QLogic QLA2200 driver  
Solaris 8,9 Rev=X.XX  
  
Where do you want the driver object installed  
(default=/kernel/drv):
```

7. Press **ENTER** to accept the default.

The pkgadd program performs a series of checks, then posts a script warning and asks whether to continue the installation, as shown in the following example:

```
##Executing checkinst11 script.  
Using </> as the package base directory.  
## Processing package information.  
## Processing system information.  
## Verifying disk space requirements.  
## Checking for conflicts with packages already installed.  
## Checking for setuid/setgid programs.  
  
This package contains scripts which will be executed with  
super-user permission during the process of installing this  
package.  
  
Do you want to continue with the installation of <QLA2200-3>  
[y,n,?]
```

8. Enter **Y** to continue the driver installation. The pkgadd program notifies you when the driver installation is complete, as shown in the following example:

```
Installing QLogic QLA2200 driver as <QLA2200-3>
## Installing part 1 of 1.
/kernel/drv/qla2200
/kernel/drv/qla2200.conf
[ verifying class <none> ]
## Executing postinstall script
Installation of <QLA2200-3> was successful.
```

9. Enter **q** to quit the installation or select the next driver package to install.
10. Reboot the system to implement your changes, as shown in the following example:

```
reboot -- -r
```

## **PCI Adapter Features**

Delete the following feature:

- Two independent channels on a single adapter.